

# LIFTING SOLUTIONS



SectionLift<sup>®</sup>





## UK LEADERS IN DESIGN AND MANUFACTURE OF LIFTING AND SPREADER BEAMS

SectionLift UK specialise in the design and manufacture of modular spreader beams, lifting beams and frames. We offer a range of standard models or can provide custom designed lifting beams to solve your lifting problems.

Continuous investment in our design office enables us to produce cost effective, reliable and safe lifting solutions for all your problems, from simple lifts to complex lifting rigs.

Our hire stock of SectionLift modular spreader lifting beams and fixed spreader lifting beams are constantly expanding enabling us to provide off the shelf solutions in many instances.





# PROBLEMS SOLVED



# SECTIONLIFT MODULAR

SectionLift modular or sectional spreader beams are a versatile system of interchangeable components which are assembled to provide a wide array of lifting solutions from simple 2 point spreader beams to complex multi-beam lifting rigs. They can be assembled to form virtually any span or configuration of lifting rig allowing for a cost effective lifting solution for a wide range of lifting and handling applications.

These type of beams have a number of advantages over traditional fixed span or fixed configuration lifting beams including:-

**Cost effective** - Only a small number of components are required to make up a variety of spans and configurations.

**Versatile** - Sectional lifting beams can be configured into virtually any lifting rig to enable the most complicated of structures to be lifted.

**Storage** - Sectional lifting beams can be dismantled and stored in a relatively small space saving valuable space in your premises.

**Handling** - These type of beams are able to be handled more easily than conventional fixed spreader beams.

**Transport** - Transport costs can be reduced as the beams can be shipped in component form thus requiring a smaller, more cost effective vehicle.

**High lift capacity to size ratio** - Relatively small modular lifting beams can lift high loads compared with fixed lifting beam configurations.





# SECTIONLIFT MODULAR SPREADER BEAMS

SectionLift provide a wide range of Modular Spreader Beam components, a variety of different spans for all your lifting needs. The sizes range from 2 to 3,000 tonnes with spans available from 0.5m - 32m. The flexibility of the modular configuration enables our Spreader Beams to be reused time and time again. SectionLift offers extreme versatility and cost effectiveness by using different end fittings for each strut system enabling smaller shackles to be used for longer, lighter loads. Strut adapters enable the system to be further adapted providing virtually unlimited combinations of end fittings and strut systems to precisely tailor the spreader beam to your requirements.



# SECTIONLIFT MODULAR RANGE – KEY FEATURES

## **SectionLift 6**

Maximum Beam Length: 4 metres  
Max. Load Capacity: 8 tonnes at 2 metres  
6 tonnes capacity at 3 metres span

## **SectionLift 10**

Maximum Beam Length: 10 metres  
Max. Load Capacity: 16 tonnes at 5.5 metres  
10 tonnes capacity at 7 metres span

## **SectionLift 20**

Maximum Beam Length: 12 metres  
Max. Load Capacity: 24 tonnes at 5.5 metres  
20 tonnes capacity at 6 metres span

## **SectionLift 30**

Maximum Beam Length: 14 metres  
Max. Load Capacity: 34 tonnes at 6.4 metres  
21 tonnes capacity at 9 metres span

## **SectionLift 50**

Maximum Beam Length: 16 metres  
Max. Load Capacity: 50 tonnes at 6 metres  
40 tonnes capacity at 8 metres span

## **SectionLift 80**

Maximum Beam Length: 20 metres  
Max. Load Capacity: 80 tonnes at 11 metres  
50 tonnes capacity at 15 metres span

## **SectionLift 110**

Maximum Beam Length: 22 metres  
Max. Load Capacity: 170 tonnes at 8.5 metres  
110 tonnes capacity at 12 metres span

## **SectionLift 240**

Maximum Beam Length: 26 metres  
Max. Load Capacity: 240 tonnes at 10 metres  
180 tonnes capacity at 13 metres span

## **SectionLift 420**

Maximum Beam Length: 32 metres  
Max. Load Capacity: 600 tonnes at 9 metres  
220 tonnes capacity at 20 metres span

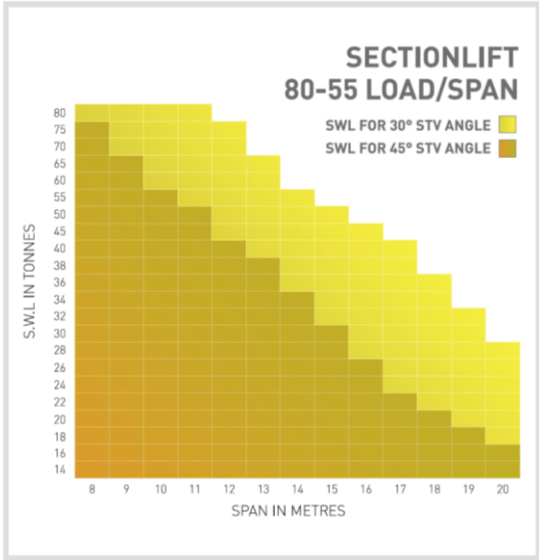
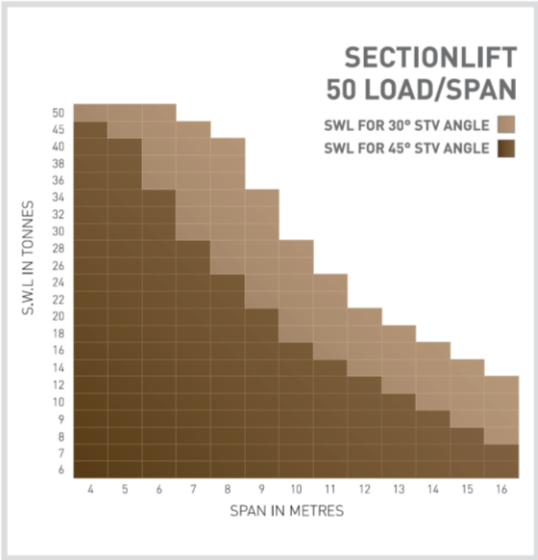
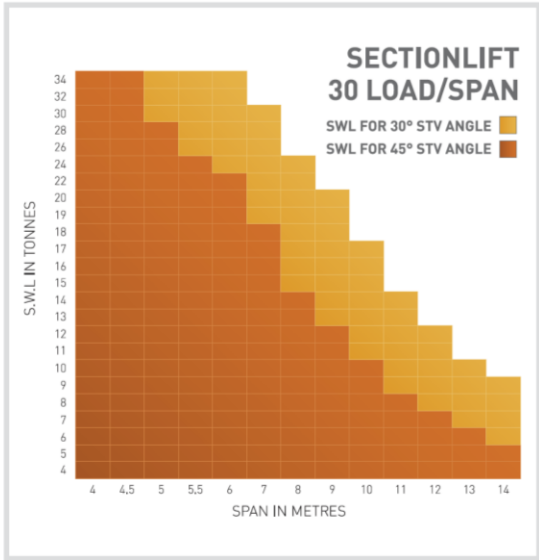
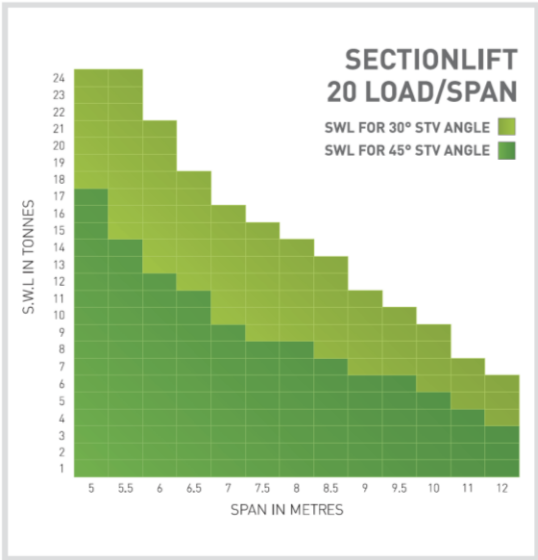
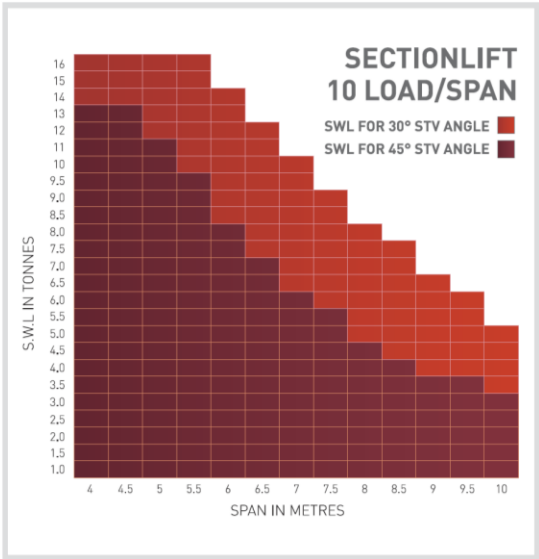
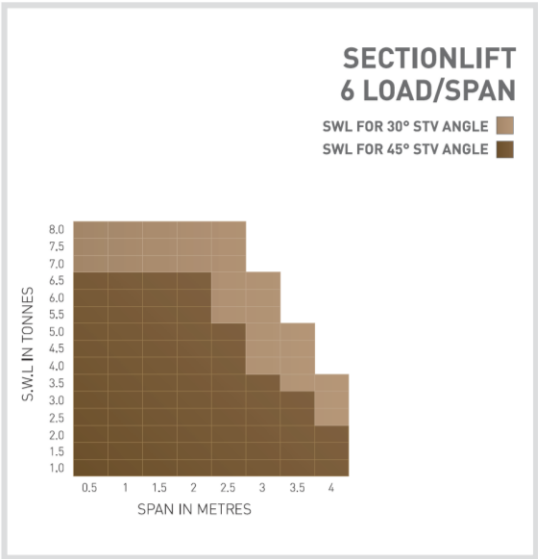
## **SectionLift 650**

Maximum Beam Length: 32 metres  
Max. Load Capacity: 800 tonnes at 18 metres  
300 tonnes capacity at 28 metres span



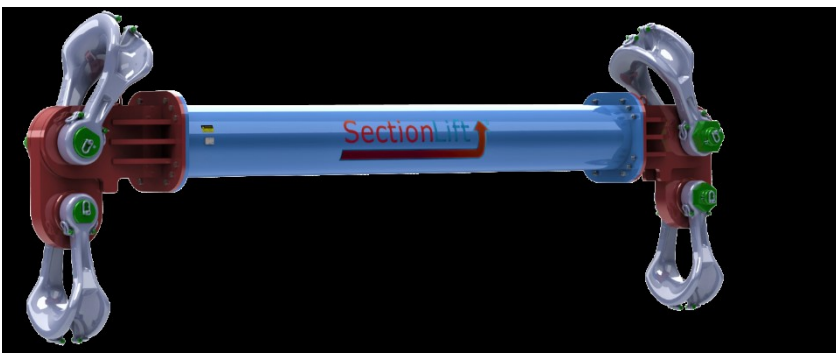
SECTIONLIFT STANDARD RANGE

Load v Span Chart - SectionLift Spreader Beam Standard Range

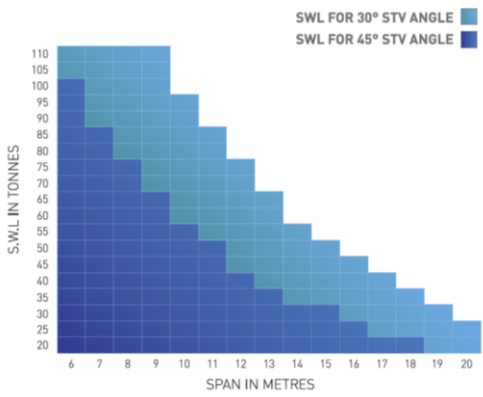




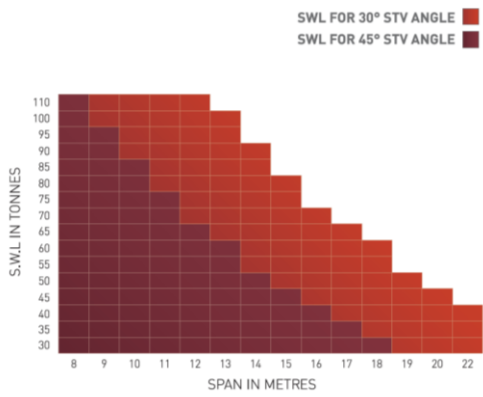
# SECTIONLIFT MODULAR



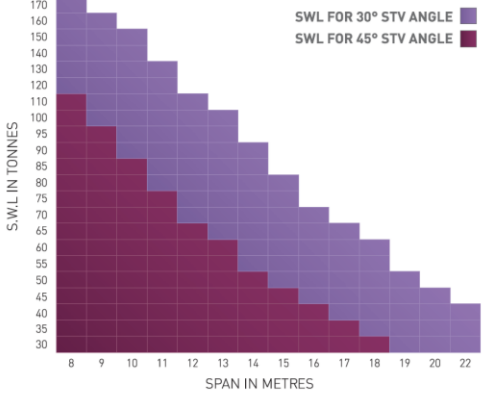
**SECTIONLIFT  
80-85 LOAD/SPAN**



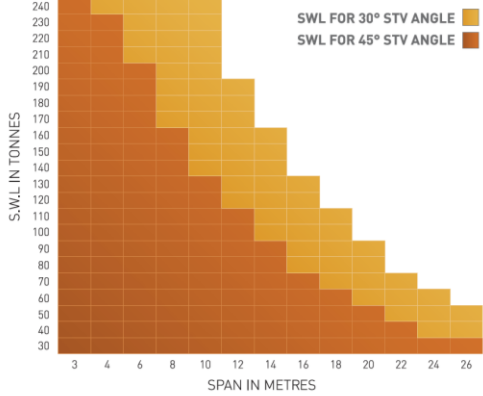
**SECTIONLIFT  
110-85 LOAD/SPAN**



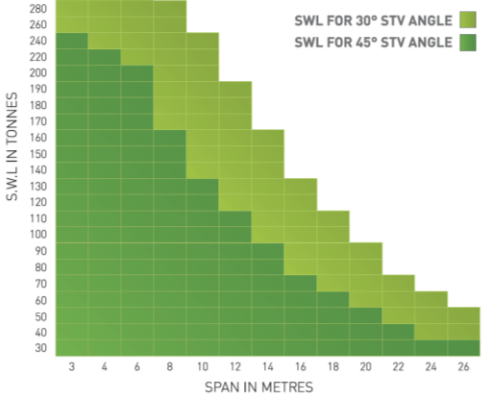
**SECTIONLIFT  
110-120 LOAD/SPAN**



**SECTIONLIFT  
240-200 LOAD/SPAN**

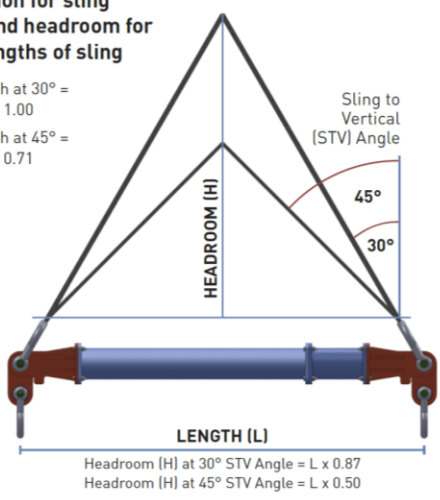


**SECTIONLIFT  
240-250 LOAD/SPAN**



**Calculation for sling  
length and headroom for  
equal lengths of sling**

Sling Length at 30° =  
Length(L) x 1.00  
Sling Length at 45° =  
Length(L) x 0.71





# LIFTING BEAMS



SectionLift are industry leaders in the design and manufacture of all types of lifting beams, lifting frames and fixed spreader beams. Whether it is a simple beam from our vast library of standard designs or a bespoke complex lifting solution SectionLift are able to deliver on time and on budget time after time.

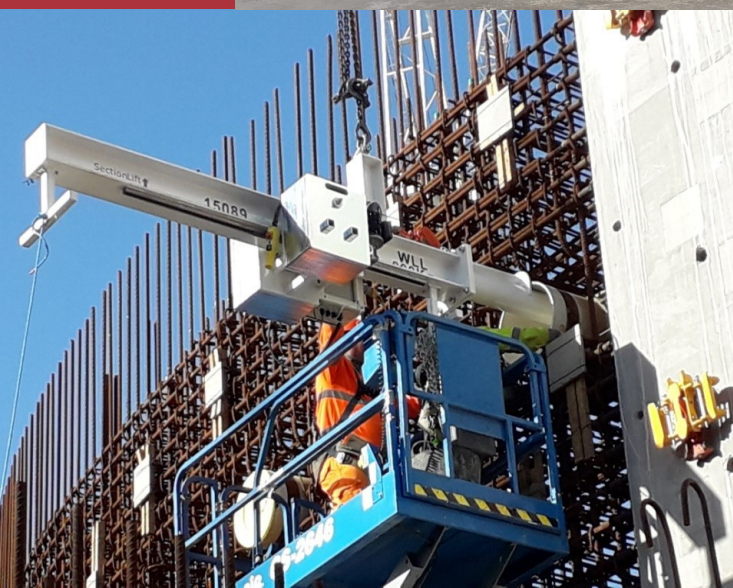
## Standard Lifting Beam Types

**Simple Lifting Beams** - Perfect for everyday tasks.

**Multipoint Lifting Beams** - A true “one beam for all”. Versatile and cost effective able to provide lifting solutions to many different lift requirements.

**Counterbalance Lifting Beams** - Lifting under an overhang or inside the minimum radius of a tower crane. Counterbalance beams provide the solution.

**Fixed Spreader Beams** - Often the lightest and most cost effective solution to simple 2 point lifts.





# SECTIONLIFT MULTIPOINT BEAMS

SectionLift UK manufacture a wide range of multipoint lifting beams providing a lifting solution capable of many different lifts in one easy to use package. These beams are cost effective and are able to replace many standard fixed beams. We have an extensive library of standard designs for a multitude of applications or we can manufacture a multi-point lifting beam to your requirements.



# MULTIPOINT BEAMS



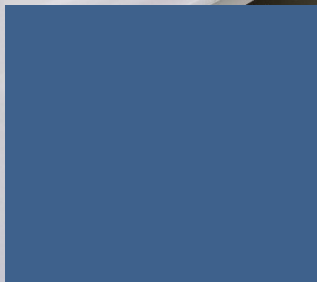
# COUNTER BALANCE BEAMS

## SECTIONLIFT COUNTER BALANCE BEAMS

SectionLift UK design and manufacture Counter Balance Lifting Beams which enable objects to be positioned under overhangs, protrusions or obstacles. They also allow loads to be positioned inside the minimum radius of a Tower Cranes, Luffing Cranes, Overhead and Mobile Cranes.

We carry an extensive range of equipment in our hire fleet which is of modular construction and can be tailored to provide a lifting solution to your problem.

We are also able to produce a Counter Balance lift specific lifting and rigging plans and can design, plan and calculate a counterbalance lifting solution for your project.





# LIFTING FRAMES



## SECTIONLIFT LIFTING FRAMES

When a number of vertical lift points are required a lifting frame is often the best solution. Quick and easy setup and increased rigidity support the most flexible of loads.

SectionLift have designed a myriad of standard and bespoke lifting frames over many years. We can provide a complete design service to solve your lifting problems.





# SPREADER BEAMS

## SECTIONLIFT SPREADER BEAMS

Spreader beams offer a lightweight and cost effective solution to lifting heavy loads. They have a high lifting capacity to weight ratio offering improved handling and usability. SectionLift can design, manufacture and supply a fixed spreader beam to your exact requirements.

We offer capacities up to 1,000 tonnes and can supply all the necessary rigging to complete your project.



# SECTIONLIFT MATERIAL HANDLING EQUIPMENT

We design and manufacture material handling equipment ranging from small parts manipulators to forklift attachments and lifting decks.

Contact our technical sales team today with your enquiry.



# MATERIAL HANDLING



# STORAGE

## SECTIONLIFT STORAGE

Safely storing heavy industrial products is always a challenge. SectionLift specialize in creating and manufacturing storage solutions for industry. Correctly designed storage equipment improves the usability of the existing floor area and provides a safe and secure environment for the product reducing damage. As with all load handling equipment all our products are marked with a WLL and supplied fully certified.

Our products include:-

- Railway bogie stacking frames.
- Wheelset storage and movement stillage's
- Lifting equipment tackle racks.
- Parts storage and handling frames





# SECTIONLIFT RENTAL / HIRE

# HIRE

Continual investment in our comprehensive hire fleet enables us to offer one of the widest ranges of spreader and lifting beams available in the UK.

The types of lifting and spreader beams included in our hire fleet are:-

- Standard Lifting Beams
- Modular and Fixed Spreader Beams
- Counter Balance Lifting Beams
- Multi - point Lifting Beams
- Lifting Frames

All lifting and spreader beams are supplied with full certification and we can supply all the required accessories including shackles, chain, wire rope and polyester slings. We are also able to design and supply end connections to connect to your items to be lifted.

We ensure competitive prices, with additional duration and quantity discounts, and most importantly, the right equipment, where you need it, when you need it.

Please contact our sales staff on 01302 367755 for further information on our range of products & services or to discuss your individual needs.





# SPECIAL PROJECTS

## SECTIONLIFT SPECIAL PROJECTS

If you have an unusual or unique lifting problem our team of talented designers are able to design a custom lifting solution. This can be as simple as a single spreader beam or a solution to lift an out of balance load with multiple lift points requiring an array of lifting beams in a purpose designed lifting rig.

We use sophisticated CAD design software to ensure our products are designed and built to the highest standards and conform with all relevant regulations and design standards.

Our continuous investment in our design office enables us to produce cost effective, reliable and safe lifting solutions for all your problems, whether they are simple lifts or complex lifting rigs.



## SLINGS

### Wire Ropes and Grommets

To compliment the SectionLift range of Spreader and Lifting Beams we supply quality British manufactured wire rope slings and grommets designed to your specific requirements. Our slings can be offered as single, two, three, four leg or endless and can be manufactured from galvanised steel or stainless steel and we are able to offer a variety of end fittings including soft eyes, thimble eyes and various hooks and shackles. Our slings are manufactured to exacting standards which include EN 13414-1, DNV 2.7-1 and EN 12079-2. All our rope slings are made to order and if you require any assistance with the design of your lifting system our technical sales team will be pleased to advise.



### Polyester Round Slings and Web Slings

Polyester round and web slings offer both lightness and ease of use making for a versatile lifting system. The round sling is constructed of high tenacity polyester fibres which are protected by a durable polyester cover. Round slings offer great flexibility, moulding to irregular loads, minimise damage to those loads and have a very low weight to length ratio versus more traditional chain and wire options.



Flat web slings are offered in simplex or duplex and are constructed of 100% heavy duty polyester webbing. These slings are lightweight, less likely to scratch or damage the load, resist mildew and bacterial growth, and have excellent elongation properties versus their nylon counterparts. For use in choker, vertical and basket hitches.

Both Polyester round and web slings can have protective sleeves fitted for even greater durability. They can also fitted with a variety of end fittings including hooks, eyes, load plates and master rings.

### Chain Slings

We offer both Grade 8 and grade 10 chain slings with capacities up to 67t . When used



in conjunction with spreader beams chain slings offer a versatile rigging solution providing opportunities to alter the sling lengths to accommodate different centre of gravities without having to purchase specific length slings. Our chain slings are manufactured to BS EN 818-4 and are assembled in house for fast turnarounds as we hold a large stock of chains and components.

### Dyneema® Slings

DSM Dyneema is the inventor and manufacturer of Dyneema®, the world's strongest fibre.

Dyneema® is a super strong polyethylene fibre that offers maximum strength combined with minimum weight. It is up to 15 times stronger than quality steel and up to 40%

stronger than aramid fibres, both on weight for weight basis.

Dyneema® floats on water and is



extremely durable and resistant to moisture, UV light and chemicals. Besides the fact that it is a very strong fibre it is much lighter than the materials which are commonly used such as steel wire ropes and polyester. We are able to offer Dyneema slings with all our lifting and spreader beam. Please call our technical sales team if your application warrants this extremely high specification material.



# SHACKLES

## SHACKLES

We offer the very highest quality Van Beest Green Pin shackles for use with our SectionLift Beams. We will specify which shackle would be best suited to the application and environment. Most of the shackles are directly available from stock. Furthermore, shackles can be supplied to many standards such as the US Federal Specification RR-C-271, EN 13889, British Standard 3032, DIN 82101, DIN 82016 etc. Polar shackles are for use in extreme climatic conditions with material properties guaranteed up to temperatures of -40°C.

### Standard Green Pin Alloy Bow Shackle Specification

**Material:** bow and pin high tensile steel, Grade 6, quenched and tempered.

**Safety Factor:** MBL equals 6 x WLL.

**Standard:** EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A.

**Finish:** hot dipped galvanized.

**Temperature Range:** -20°C up to +200°C.

**Certification:** at no extra charge this product can be supplied with a works certificate, 3.1 material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 2 tonnes can be supplied with DNV 2.7-1 certificate.

**Note:** for details on dimensions and tolerances please consult our CAD drawings, these are available on request.

### Heavy Duty Green Pin Alloy Bow Shackle Specification

**Material:** bow and pin alloy steel, Grade 8 quenched and tempered.

**Safety Factor:** MBL equals 5 x WLL.

**Finish:** shackle bow painted silver, pin painted green (120 tonnes shackle is hot dipped galvanized).

**Certification:** at no extra charge this product can be supplied with a works certificate, 3.1 material certificate, manufacturer test certificate, EC Declaration of Conformity and all shackles starting from 150 tonnes are supplied with a Lloyd's Register of Shipping Certificate on proof load.

**Note:** for details on dimensions and tolerances please consult our CAD drawings, these are available on request.



### Green Pin Sling Shackle Specification

**Material:** bow and pin alloy steel, Grade 8, quenched and tempered.

**Safety Factor:** MBL equals 5 x WLL.

**Finish:** shackle bow painted silver, pin painted green.

**Temperature Range:** -20 °C up to +200 °C,

**Certification:** at no extra charges this product can be supplied with a works certificate, 3.1 material certificate, manufacturer test certificate, EC declaration of Conformity and all shackles from 75 tonnes and up are supplied with a Lloyd's Register of Shipping Certificate on proof load. For shackles 75 tonnes and up an MPI and/or US inspection certificate can be supplied on request.

**Note:** for details on dimensions and tolerances please consult our CAD drawings, these are available on request.

### We are also able to offer

**Green Pin Polar Shackles** - bow shackles with safety bolt, for use under extreme climatic conditions.

**Green Pin Heavy Duty Polar Shackles** - bow shackles with safety bolt, for use under extreme climatic conditions.

**Green Pin Super Shackles** - bow shackles with safety bolt.

**Green Pin ROV Release Polar Shackles** with spring pins.

**Green Pin ROV Release Polar Shackles** with locking clamp.

**Green Pin ROV Spring Release Polar Shackles** spring loaded.

## QUALITY ASSURANCE

All our SectionLift spreader and lifting beams are designed and manufactured using the latest techniques and equipment in accordance with our BS EN ISO 9001 quality assurance system. Our fabrication team are qualified to BS 287-1 with welding procedure qualifications to BS EN ISO 15614-1.

## REGULATIONS AND COMPLIANCE

### UK and Europe

- BS EN 13155:2002 + A2:2009: Cranes – Safety – Non-fixed Load Lifting Attachments
- DNV 2.22. SectionLift Spreader beams are designed to conform with DNV Standard for certification No. 2.22 Lifting Appliances 2011 and DNVGL-ST0378.
- LOLER: 1998 (Lifting Operations and Lifting Equipment Regulations)
- EC Machinery Directive 2006/42/EC
- BS EN 1993-1 2005: Eurocode 3
- PUWER: 1998 (Provision and Use of Work Equipment Regulations)

### Russia

- EAC Mark - Eurasian Customs Union Technical Regulations Compliance

### Worldwide

- ISO 17096 - 2015: Cranes, Safety, Load Lifting Attachments

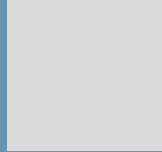
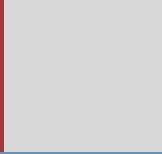
### Enhanced Certification

We are able to offer enhanced document packages as required some industries and sectors including Off Shore, Maritime and Nuclear.

- Quality plan
- Material certification for all components 3.1 or 3.2
- Welder qualification and procedures
- Weld inspection reports
- Welding machine validation
- MPI report and qualification to BS EN ISO 17637:2011
- Third party witnessed proof load testing.
- Final dimension check reports
- Certificate of conformity
- Tough examination certificate







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